

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/052588

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 E21B19/00 E21B19/07 E04H17/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 E21B E04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 797 570 A (LEUTWYLER K,US) 19 March 1974 (1974-03-19)  figures 1,2,4	1,2,4, 10-12, 17-19,28
A	US 3 096 075 A (BROWN CICERO C) 2 July 1963 (1963-07-02)  figures 1-8	1,2,4, 10-12, 17-19, 28,31

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

21 February 2005

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02/03/2005

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3797570	A	19-03-1974	NONE	
US 3096075	A	02-07-1963	NONE	